

REGION	SITE NUMBER (to be assigned by HQ)
6	TV 981918188

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Houston Gas Light Co.		B. STREET (or other identifier) 1515 Commerce	
C. CITY Houston	D. STATE TX	E. ZIP CODE 77002	F. COUNTY NAME Harris
G. SITE OPERATOR INFORMATION			
1. NAME		2. TELEPHONE NUMBER	
3. STREET		4. CITY	5. STATE
			6. ZIP CODE
H. REALTY OWNER INFORMATION (if different from operator of site)			
1. NAME ENTEX Gas Company, Inc.		2. TELEPHONE NUMBER	
3. CITY Houston		4. STATE TX	5. ZIP CODE 77002
I. SITE DESCRIPTION Coal gasification plant operated late 1800's to early 1900's			
J. TYPE OF OWNERSHIP			
<input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE			

II. TENTATIVE DISPOSITION *(complete this section last)*

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)		B. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input checked="" type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE	
C. PREPARER INFORMATION			
1. NAME Patricia Curl		2. TELEPHONE NUMBER 512-463-7800	3. DATE (mo., day, & yr.) Sept. 14, 1988


III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION	
1. NAME William Tobin, P.E.	2. TITLE
3. ORGANIZATION McBride - Ratcliff and Associates, Inc.	4. TELEPHONE NO. (area code & no.) 713/460-3766

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.

C. SITE REPRESENTATIVES INTERVIEWED (*corporate officials, workers, residents*)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
		X REF IN SA Vol 1
	SUPERFUND FILE	
	JUN 22 1992	
	REORGANIZED	
		161094 

INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (source of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
NA			

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
NA			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
NA		

G. DATE OF INSPECTION
(mo., day, & yr.)

H. TIME OF INSPECTION

I. ACCESS GAINED BY: (credentials must be shown in all cases)



1. PERMISSION



2. WARRANT

J. WEATHER (describe)

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL	X	MBA labs, Houston	
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS

☒ a. GROUND ☐ b. AERIAL

2. PHOTOS IN CUSTODY OF:

McBride - Ratcliff

D. SITE MAPPED?

☒ YES. SPECIFY LOCATION OF MAPS: See attachment 1

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

29° 45' 39"

2. LONGITUDE (deg.-min.-sec.)

95° 21' 15"

V. SITE INFORMATION

A. SITE STATUS

☐ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

☐ 2. INACTIVE (Those sites which no longer receive wastes.)

☒ 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

Not active coal gasification since pre-1929

B. IS GENERATOR ON SITE?

☒ 1. NO ☐ 2. YES (specify generator's four-digit SIC Code):

C. AREA OF SITE (in acres)

Approx. 4 acres

D. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO ☒ 2. YES (specify): Maintenance, storage and office buildings

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/> A. TRANSPORTER	<input checked="" type="checkbox"/> B. STORER	<input checked="" type="checkbox"/> C. TREATER	<input checked="" type="checkbox"/> D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS./TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for.

☐ 1. STORAGE ☐ 2. INCINERATION ☐ 3. LANDFILL ☐ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL
☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☐ 9. TRANSPORTER ☐ 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☐ 1. LIQUID ☒ 2. SOLID ☐ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☐ 1. CORROSIVE ☐ 2. IGNITABLE ☐ 3. RADIOACTIVE ☐ 4. HIGHLY VOLATILE
☒ 5. TOXIC ☐ 6. REACTIVE ☐ 7. INERT ☐ 8. FLAMMABLE

☐ 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

No records

WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
None	None	None	None	Unknown	
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
'X' (1) PAINT, PIGMENTS	'X' (1) OILY WASTES	'X' (1) HALOGENATED SOLVENTS	'X' (1) ACIDS	'X' (1) FLYASH	'X' (1) LABORATORY, PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER(specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER(specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
(5) OTHER(specify):			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER(specify):
			(6) CYANIDE	(6) OTHER(specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER(specify):		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Acenaphthene	X							83-32-9	1187	mg/kg
Acenaphthylene	X							208-9-68	971	"
Anthracene	X			X				120-12-7	1218	"
Naphthalene	X			X				91-20-3	4235	"
Phenanthrene	X			X				85-01-8	1838	"
Pyrene	X			X				129-00-0	727	"
Fluoranthene	X			X				206-44-0	492	"
Fluorene	X							86-73-7	977	"

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☐ A. HUMAN HEALTH HAZARDS

None observed

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

None

☐ C. WORKER INJURY/EXPOSURE

None

☐ D. CONTAMINATION OF WATER SUPPLY

None observed

☐ E. CONTAMINATION OF FOOD CHAIN

None observed

☐ F. CONTAMINATION OF GROUND WATER

Unknown

☐ G. CONTAMINATION OF SURFACE WATER

None observed

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

None observed

☐ I. FISH KILL

None

☐ J. CONTAMINATION OF AIR

Unknown

☐ K. NOTICEABLE ODORS

None

☐ L. CONTAMINATION OF SOIL

Unknown

☐ M. PROPERTY DAMAGE

None

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

None

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

None

☐ P. SEWER, STORM DRAIN PROBLEMS

None

☐ Q. EROSION PROBLEMS

Unknown

☐ R. INADEQUATE SECURITY

None

☐ S. INCOMPATIBLE WASTES

None

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

Unknown

☐ U. OTHER (specify):

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS		7200		1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS				
3. IN PUBLICLY TRAVELLED AREAS				
4. PUBLIC USE AREAS (parks, schools, etc.)				

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) 2000 - Evangeline	B. DIRECTION OF FLOW North	C. GROUNDWATER USE IN VICINITY Public supply
D. POTENTIAL YIELD OF AQUIFER Unknown	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 1 1/4 mi	F. DIRECTION TO DRINKING WATER SUPPLY West

G. TYPE OF DRINKING WATER SUPPLY

- ☒ 1. NON-COMMUNITY < 15 CONNECTIONS* ☐ 2. COMMUNITY (specify town): _____ > 15 CONNECTIONS
- ☐ 3. SURFACE WATER ☐ 4. WELL

X. WATER AND HYDROLOGICAL DATA (continued)**H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE**

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
NA				

I. RECEIVING WATER

1. NAME

Buffalo Bayou

☐ 2. SEWERS☒ 3. STREAMS/RIVERS☐ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify):**6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS**Industrial water supply
Navigation**XI. SOIL AND VEGETATION DATA****LOCATION OF SITE IS IN:**☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☐ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER**XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED**

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

A. OVERBURDEN	B. BEDROCK (specify below)	C. OTHER (specify below)
1. SAND		X Fill materials - intermixed clay, gravel, and concrete
2. CLAY		
3. GRAVEL		

XIII. SOIL PERMEABILITY☐ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☒ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☐ F. VERY LOW (.001 to .00001 cm/sec.)**G. RECHARGE AREA**☐ 1. YES☐ 2. NO

3. COMMENTS:

H. DISCHARGE AREA☒ 1. YES☐ 2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

Less than 1%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

Steep bank next to Buffalo Bayou

J. OTHER GEOLOGICAL DATA

XIV. PERMIT INFORMATION

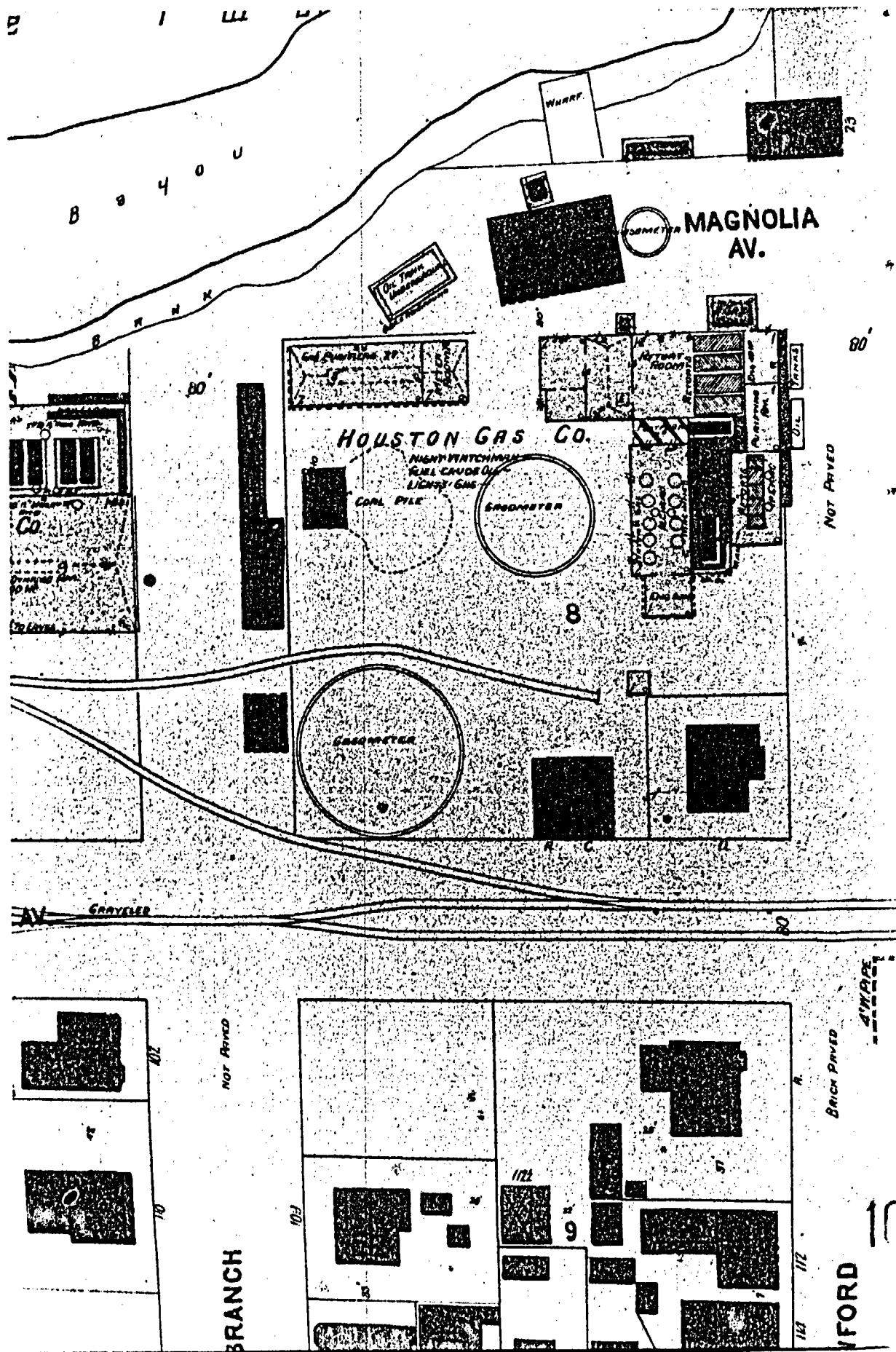
List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UN- KNOWN

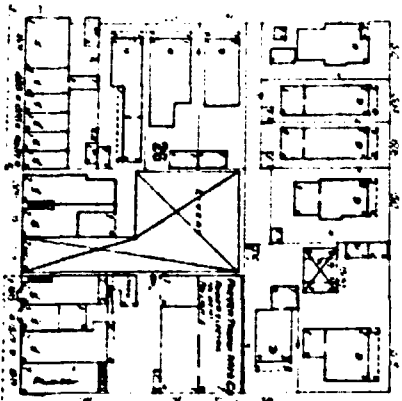
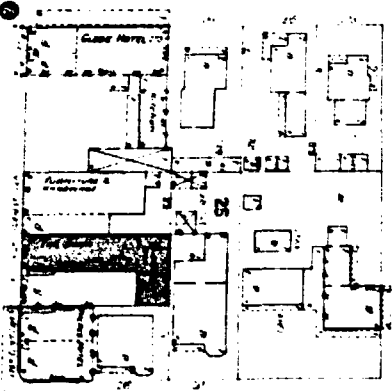
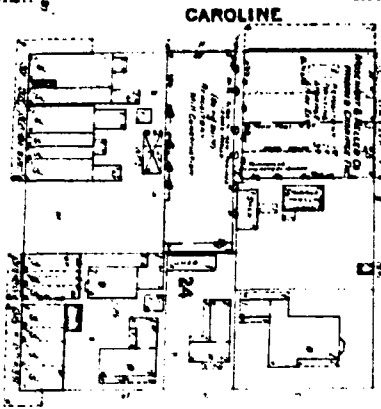
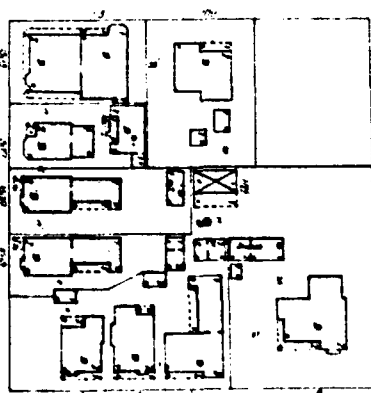
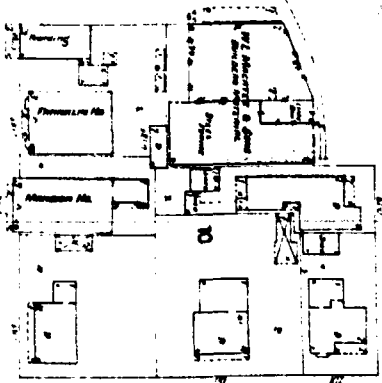
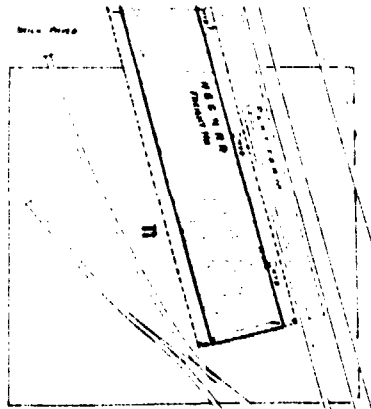
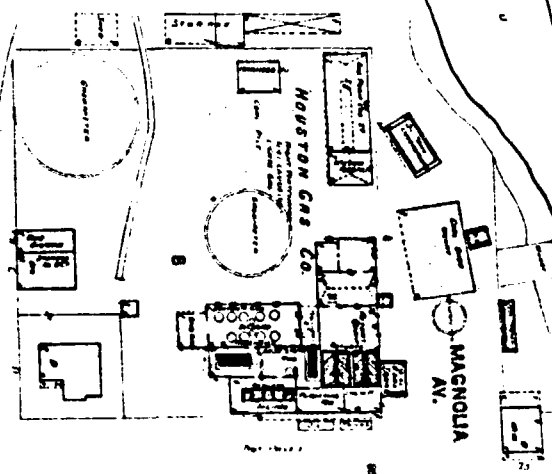
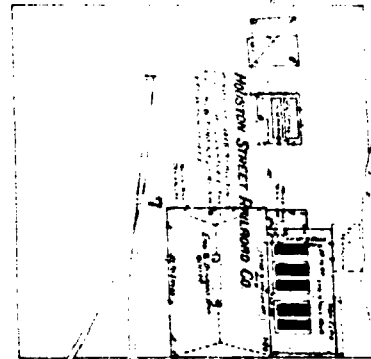
XV. PAST REGULATORY OR ENFORCEMENT ACTIONS
☒ NONE ☐ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

ATTACHMENT 1
LOCATION AND PROPERTY MAPS



5 2 2 U O I J M E T W O



CONGRESS AV.

FRANKLIN AV.

COMMERCE AV.

AUSTIN

LA BRANCH

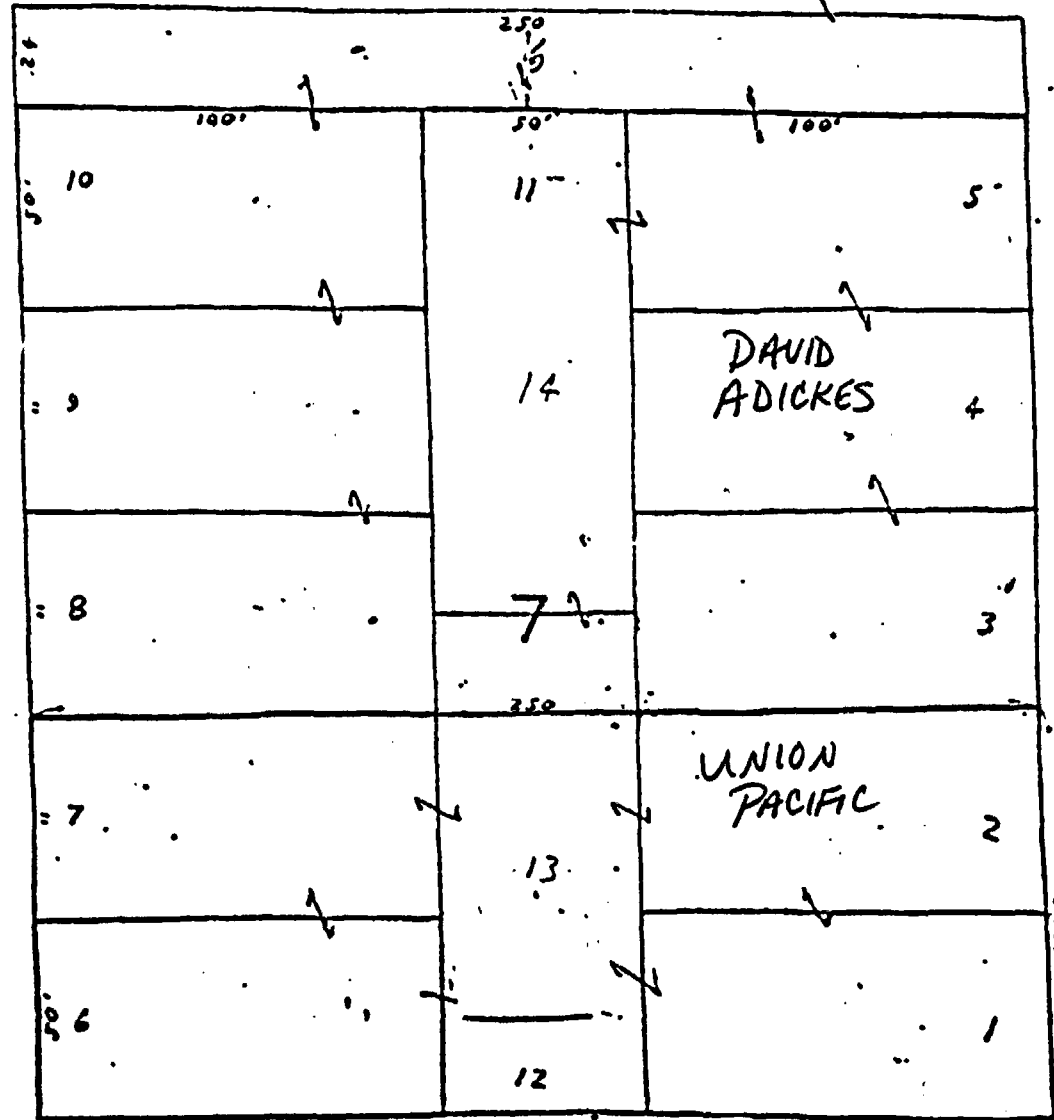
CRAWFORD

CAROLINE

TR 13
18,148

6219
H10778
TR 16 - 21394
TO CITY
12-18-57
6215

AVE

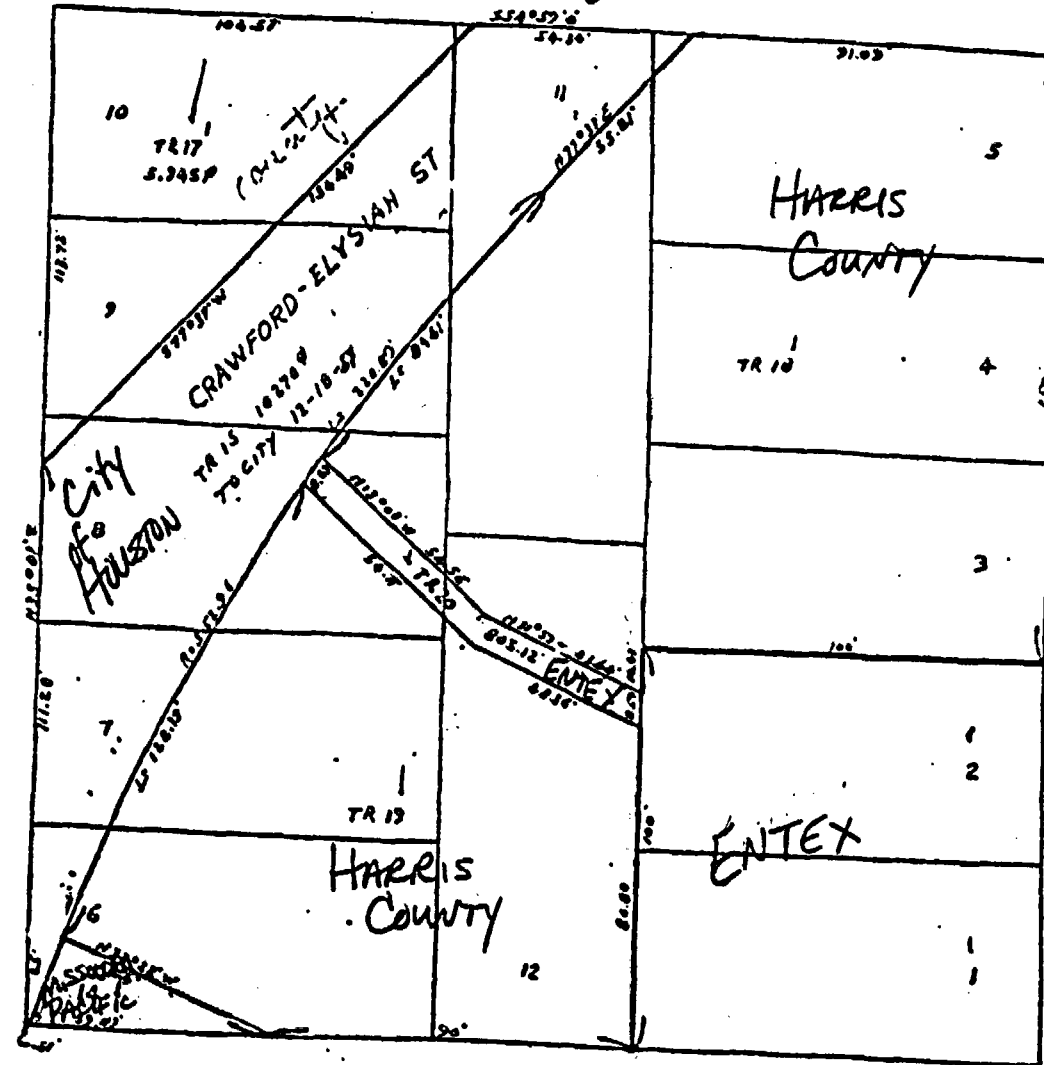


LA BRANCH

COMMERCE AVE

RUIZ

... CONNECTION



CRAWFORD

Town Gas Project:

Site Name: Houston Gas Light Company

Town gas plants were utilized throughout the United States in the late 1800s and early 1900s to manufacture gas for illumination, cooking, and heating purposes. These plants produced an array of wastes that may have been disposed of on-site. As natural gas became available, the use of the facilities which produced manufactured gas decreased. The environmental concerns associated with these facilities include products/by-products that may not have been utilized and were left in place during closure, wastes that were deposited on-site, and the potential for leaching of these wastes into soils and ground water.

The exact location of the Houston Gas Light Company was determined by researching state archives for old city directories to determine the address of the manufacturing plant and the approximate years of operation. The University of Texas Barker Collection archives contains historic Sanborn fire insurance maps which were used to determine the location of the site and identification of various landmarks which could be related to present day conditions. Due to the extensive changes in the city over the past eighty or a hundred years, it was advantageous to locate a current city map and attempt to relate the circa 1900 Sanborn maps to a current city map.

The present owner/operator of the property on which the old town gas site was located is Entex Gas Company. This is an active concern that uses the site as a maintenance/office complex. A large building covers most of the area of the old town gas site. No attempt was made to contact the owner/operator. The property to the west is owned by David Adickes (northern part) and Union Pacific Company, (southern part).

A Preliminary Assessment (PA) of the site was conducted December 5, 1986 by the TWC. The entire property that was the Houston Gas Light Company is covered by buildings and pavement, therefore no Site Inspection (SI) was planned.

McBride-Ratcliff and Associates, Inc., contacted the TWC on April 6, 1988 regarding the Houston site. They conducted a PA and collected samples for Parkway Detention/Parkway Investments who were considering developing the property. Thirteen soil borings were auger drilled, to depths ranging from 14 to 80 feet. Their report is included as attachment 2.

The analytical results indicate high levels of polynuclear aromatic (PNA) compounds. Naphthalene was found at a concentration of 4235 mg/kg, Phenanthrene at 1838 mg/kg, and Anthracene at 1218 mg/kg. Other high concentration PNAs were found. These compounds are characteristically found in manufactured gas plant tars. These PNAs are also nearly always found in soils and are produced by virtually every combustion process. In urban soils, PNAs range from 100 to 175 mg/kg (USEPA 1982). The range of PNA concentrations at the Houston site are well above the range of urban soil background levels.

The concentrations of PNAs at the Houston site are very high however the ground water and surface water in the area are not used for drinking water. Therefore this site is recommended to be considered as a medium level concern.

ATTACHMENT 2

MCBRIDE - RATCLIFF PA REPORT

**PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT
COMMERCE STREET SITE
HOUSTON, TEXAS**

FOR

**PARKWAY DETENTION
HOUSTON, TEXAS**

PREPARED BY

**MCBRIDE-RATCLIFF AND ASSOCIATES, INC.
HOUSTON, TEXAS**

TOWN GAS PROJECT:

Site Name: Houston Gas Light Company
Date of Site Visit: December 5, 1986
TWC Representative: Joe Brown

Town gas plants were utilized throughout the United States in the late 1800s and early 1900s to manufacture gas for illumination, cooking, and heating purposes. These plants produced an array of wastes that may have been disposed of on-site. As natural gas became available, the use of the facilities which produced manufactured gas decreased. The environmental concerns associated with these facilities include products/by-products that may not have been utilized and were left in place during closure, wastes that were deposited on-site, and the potential for leaching of these wastes into soils and groundwater.

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The Houston Gas Light Company site was located in this manner. A site visit was made on December 5, 1986 by Joe Brown, TWC Superfund Section, Austin.

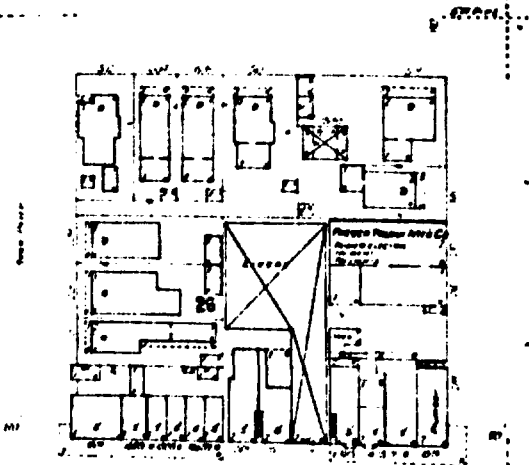
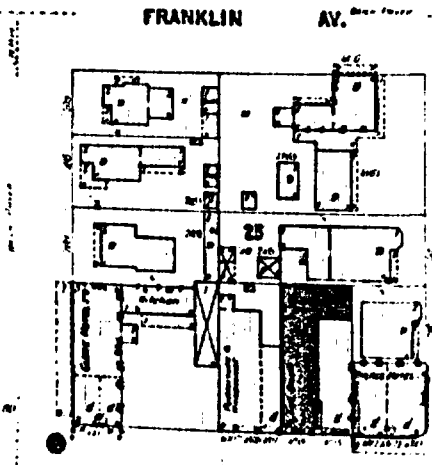
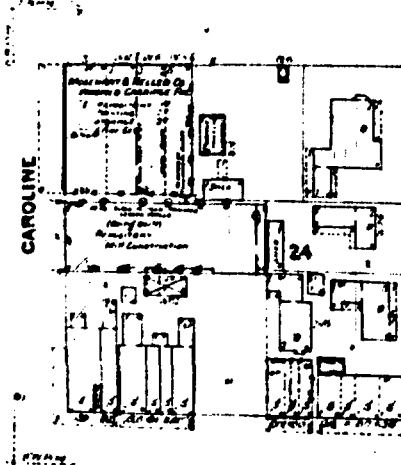
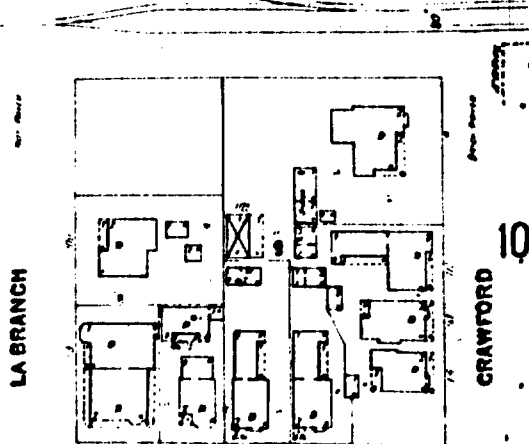
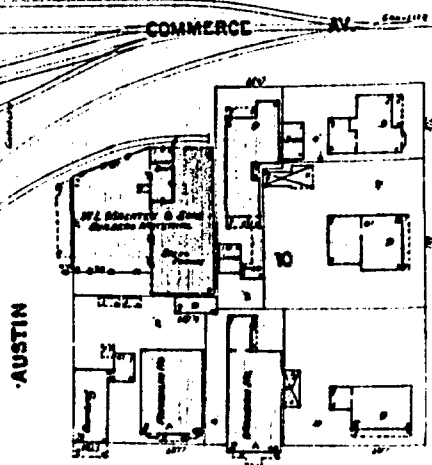
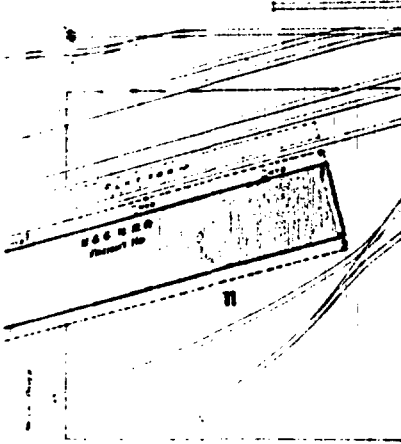
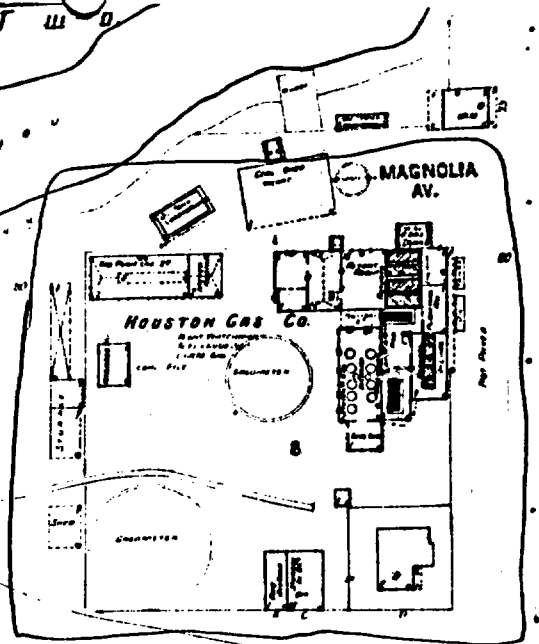
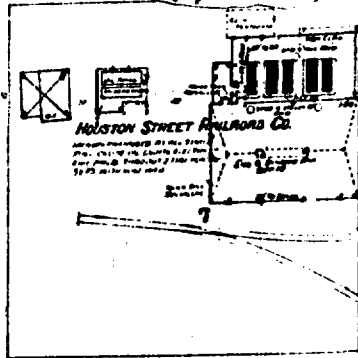
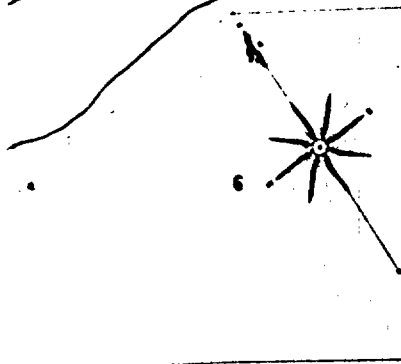
The present owner/operator of the property on which the old town gas site was located is Entex Gas Company. This is an active concern that uses the site as a maintenance/office complex. A large building covers most of the area of the old town gas site. No attempt was made to contact the owner/operator.

The site is adjacent to Buffalo Bayou, tributary to the Houston ship channel. Vagrants use the south end of bridges on both sides of the site for shelter and a place to sleep.

The TWC recommendation that a low priority site inspection is warranted, is based on the potential for products/by-products of town gas operations to be present on the site, the proximity of the site to surface water bodies and areas of human use, and the feasibility of collecting soil samples for contaminant analysis for those portions of the site not covered by the building.

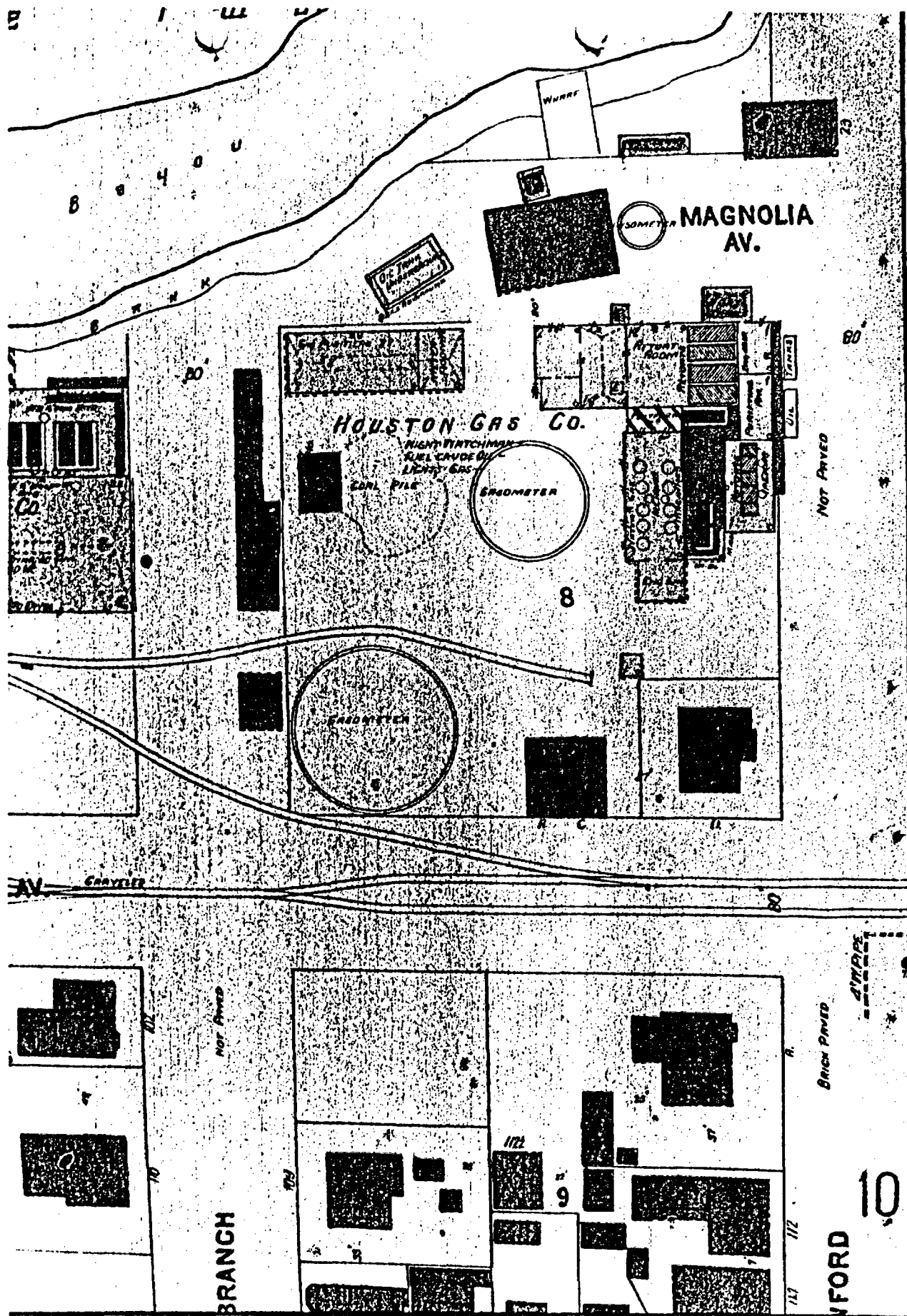
S E E U O I J M E T W O

9



13

Scale of Feet



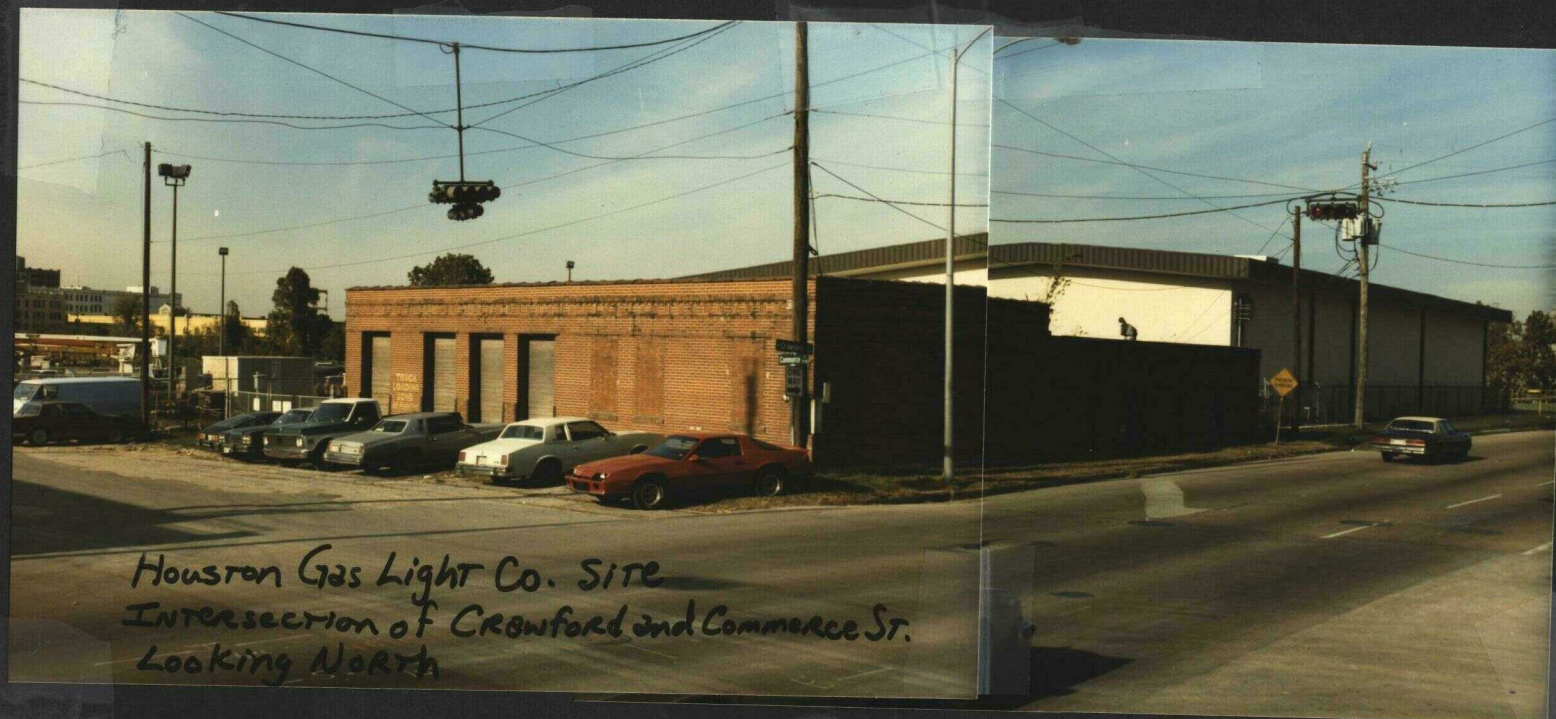


CRAWFORD ST.
Looking West



Old site circled.
Looking West.

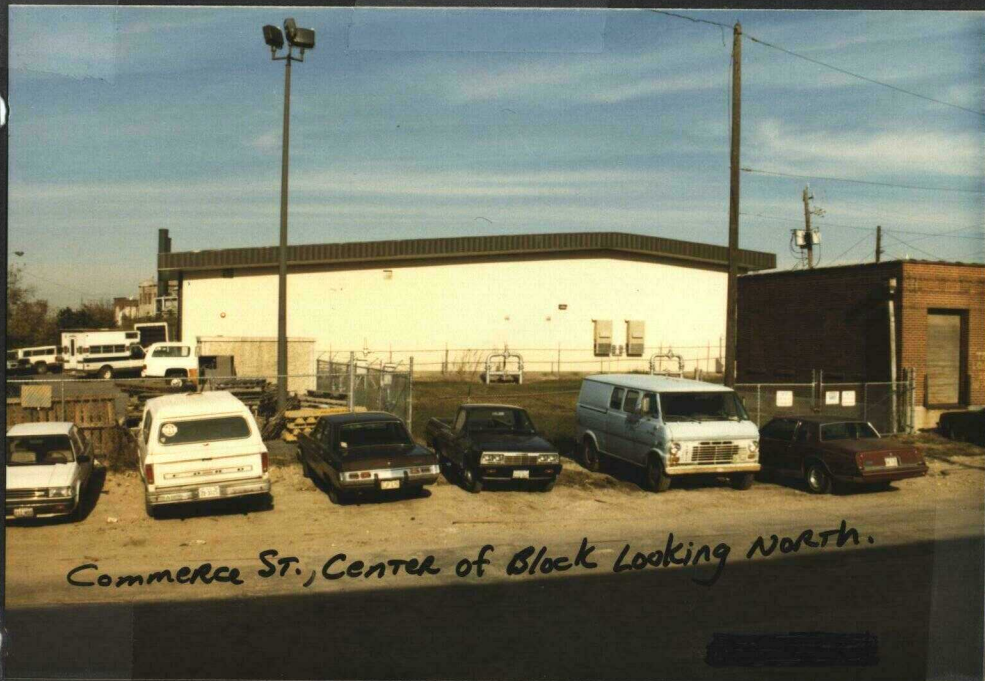
Buffalo
Bayou



Houston Gas Light Co. Site
Intersection of Crawford and Commerce St.
Looking North

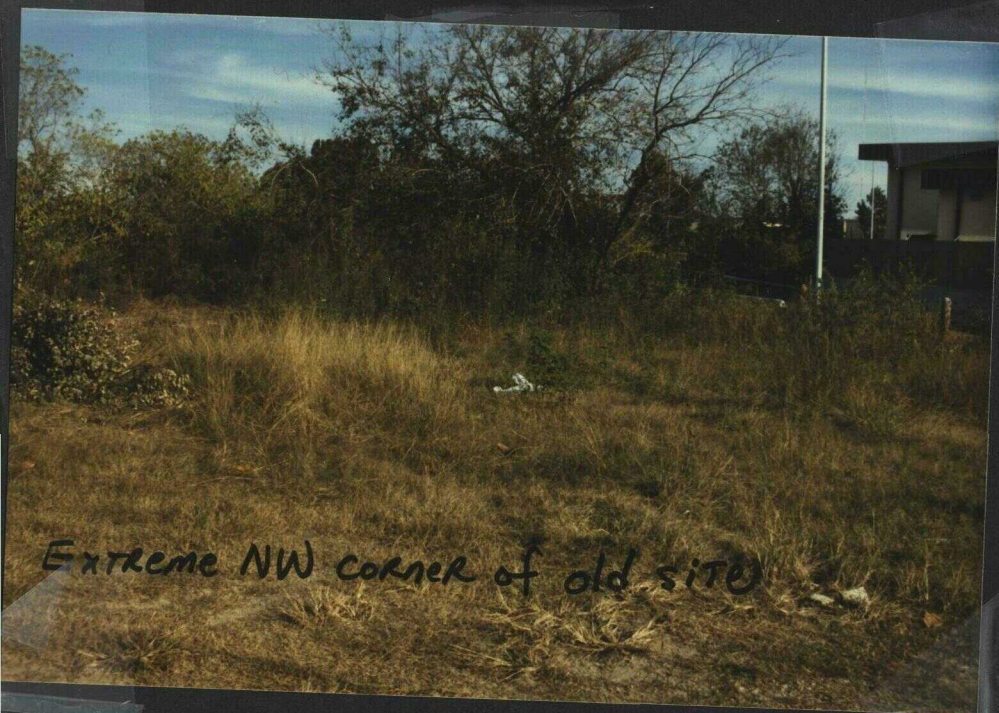


Intersection of La Branch St and
Commerce St., Looking East.

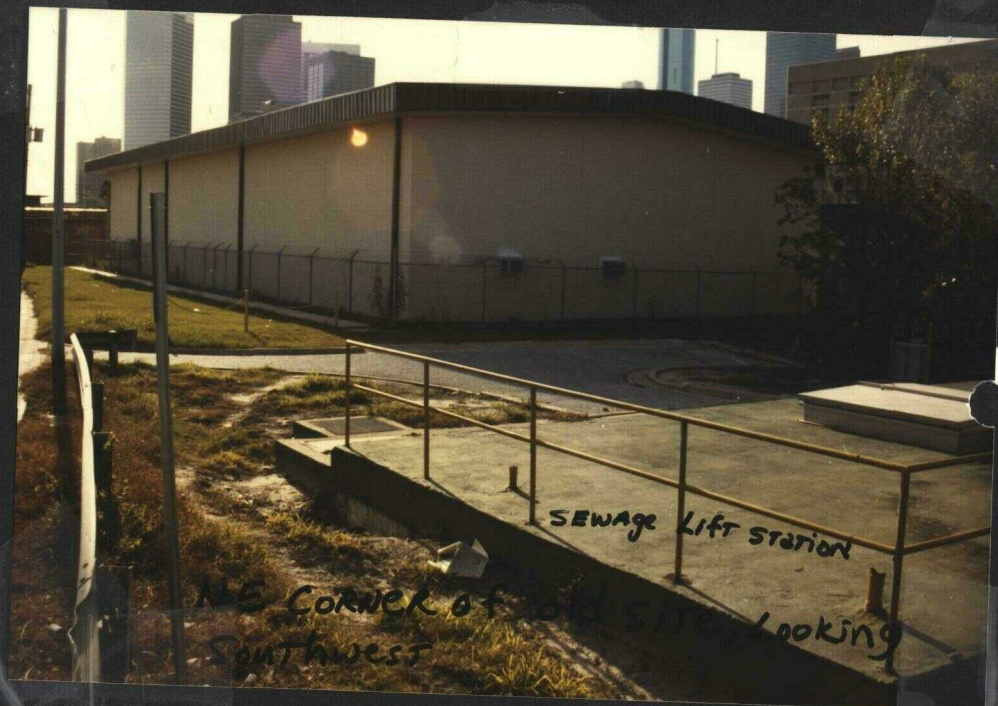


Commerce St., Center of Block Looking North.

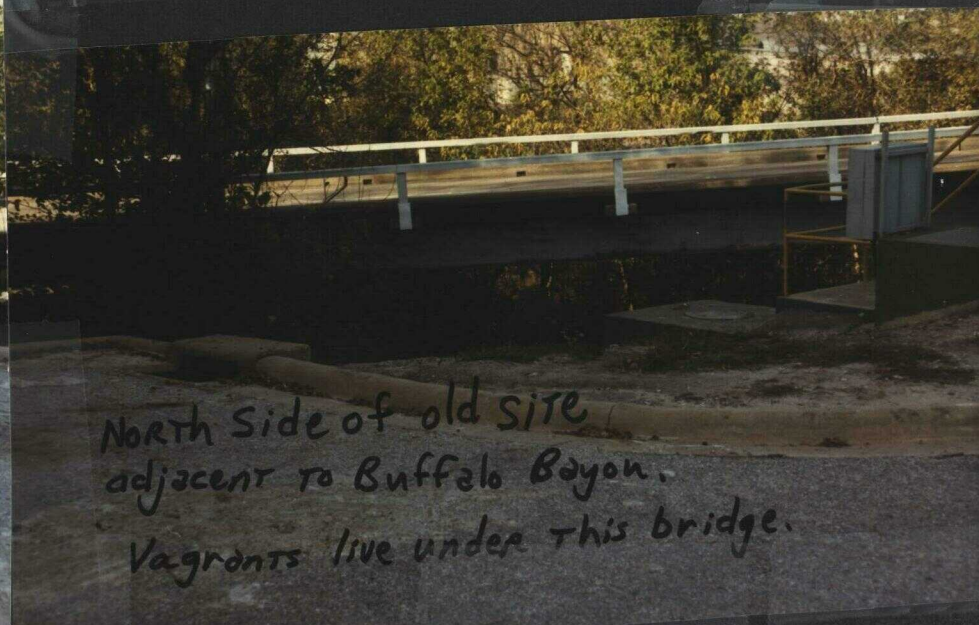




Extreme NW corner of old site



SEWAGE Lift station
NE corner of old site looking
Southwest



North side of old site
adjacent to Buffalo Bayou.
Vagrants live under this bridge.